Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory

UL - Lot

https://www.emnrd.nm.gov/ocd/contact-us

Section

11

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

Form C-101 August 1, 2011

Permit 383950

APPLICA	ATION FOR PERMIT 1	O DRILL, RE	-ENTER, DEEPEN	N, PLUGBACK	K, OR ADD A ZO	NE				
1. Operator Name and Address	2. 00	2. OGRID Number								
RILEY PERMIAN OPERATING COMP	RILEY PERMIAN OPERATING COMPANY, LLC									
29 E Reno Avenue, Suite 500					3. AF	l Number				
Oklahoma City, OK 73104						30-015-57077				
4. Property Code	5. Property Name				6. W	6. Well No.				
337522	OVER THE LINE	E 12 11				002H				
	7. Surface Location									
UL - Lot Section Township	Feet From	E/W Line	County							
E 12 18	E 12 18S 26E E 2493 N 10									

N/S Line E/W Line Lot Idn Feet From County 1980 10 Eddy

9. Pool Information

8. Proposed Bottom Hole Location

Feet From

RED LAKE;GLORIETA-YESO 51120

**Additional Well Information** 

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3299
16. Multiple N	17. Proposed Depth 8928	18. Formation Glorieta	19. Contractor	20. Spud Date 10/1/2025
Depth to Ground water		Distance from nearest fresh water we	II	Distance to nearest surface water

 ${\ensuremath{\overline{\boxtimes}}}$  We will be using a closed-loop system in lieu of lined pits

Township

18S

Range

26E

21 Proposed Casing and Coment Program

	21.1 Toposca dusing and dement Trogram									
	Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC			
Ī	Surf	12.25	9.625	36	1250	645	0			
Γ	Prod	8.75	7	32	3458	200	0			
	Prod	8.75	5.5	20	8928	1575	2300			

### **Casing/Cement Program: Additional Comments**

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	2000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.  I further certify I have complied with 19.15.14.9 (A) NMAC □ and/or 19.15.14.9 (B) NMAC ☑, if applicable.  Signature:				OIL CONSERVATION	ON DIVISION	
Printed Name:	Electronically filed by Spence La	nird	Approved By:	Jeffrey Harrison		
Title:	EHSR		Title:	Petroleum Specialist III		
Email Address: spencelaird@rileypermian.com			Approved Date:	e: 7/29/2025 Expiration Date: 7/29/2027		
Date:	Phone: 405-543-1411			Conditions of Approval Attached		

ceived by O	CD: 7/25/	2025 10:2	1:58 AM								Page 2 a		
<u>C-102</u>		State of New Mexico						Revis	ed July 9, 2024				
Submit Electroni	cally		Energy	v Mine		iral Resourc	es De	nartment		Initial Submittal			
Via OCD Permit	ting					ATION DI		SNT I	Submittal Type:	Amended Report			
										As Drilled			
Property Name and	d Well Number												
					OVER TH	E LINE 12-1	1 2H						
		W	ELL LO	CATIO	ON AND A	CREAGE	DED	ICATION	PLAT				
API Number		Pool Code				Pool Name							
30-015- <sup>5</sup>	7077			1120				RED LAKE; (	SLORITEA				
Property Code	37522	Property N	lame							Well Number			
OGRID No.	01022	Operator 1	T	OVER THE LINE 12-11						Ground Level Elevation			
	2290	Operator		RILEY PERMIAN OPERATING COMPANY LLC									
Surface Owner:		Tribal DEca		ILETP	ERIVIIAN OP			MPANY LLC   3299'					
Burrace Owner.			iciai		Surfa	ce Location	Бынс	Arec   Illoar	rederar				
UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W		Latitude	Lon	gitude	County		
Е	12	18 S	26 E		2493 FNL	1035 FWL	N 3	32.762882°	W 104.	340499°	EDDY		
	<u> </u>		 	L Bottom		n If Differen			1 11 15 11				
UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W		Latitude	Lon	gitude	County		
Е	11	18 S	26 E		1980 FNL	10 FWL	N 3	32.764354°	W 104.	361060°	EDDY		
Dedicated Acres	Infill or Defi	ning Well Defi	ning Well API		•	Overlapping Sp	acing Unit	(Y/N)	Consolidated C	Code			
160	Defining	,	N/A			N Pending							
Order Numbers	Pending	2 I				1		Well Setbacks are		Ownership: Ye	s No		
	1 onumg				Kick Of	f Point (KOF	P)	l					
UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W		Latitude	Lo	ngitude	County		

Ľ	order rumbers	Pending						Well Betouchs are	under common ownersmp.	
	Kick Off Point (KOP)									
ſ	UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
L										
						First Tal	ke Point (FTI	<b>P</b> )		
ſ	UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
L	Н	11	18 S	26 E		1980 FNL	100 FEL	N 32.764278°	W 104.344182°	EDDY
						Last Tal	ke Point (LTF	P)		
ſ	UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
L	E	11	18 S	26 E		1980 FNL	100 FWL	N 32.764352°	W 104.360767°	EDDY

MHorizontal ☐ Vertical

Spacing Unity Type

# OPERATOR CERTIFICATION

Unitized Area or Area of Uniform Interest

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Spence Laird	07/17/2025	
Signature	Date	
Spence Laird Print Name		
Print Name		
spencelaird@rileypermian.com E-mail Address		
E-mail Address		

### SURVEYORS CERTIFICATION



Ground Floor Elevation

Signature and Seal of Professional Surveyor

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MITCHELL L. MCDONALD, N.M. P.L.S.

Certificate Number 29821

JANUARY 17, 2025

3324'

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

C-102	St	ate of New Mexico			Revised July 9, 2024
Submit Electronically		s & Natural Resource	s Department		<b>X</b> Initial Submittal
Via OCD Permitting		SERVATION DIV		Submittal Type:	Amended Report
				1 ype.	As Drilled
Property Name and Well Number	0)	VER THE LINE 12-11	2H	'	
SURFACE LOCATION NEW MEXICO EAST NAD 1983 X=539135' Y=641269' LAT=N32.762882° LONG=W104.340499° NAD 1927 X=497956' Y=641206' LAT=N32.762768° LONG=W104.339983° 2493' FNL 1035' FWL FIRST TAKE POINT NEW MEXICO EAST NAD 1983 X=538003' Y=641776' LAT=N32.764278° LONG=W104.344182° NAD 1927 X=496824' Y=641714' LAT=N32.764164° LONG=W104.343666° 1980' FNL 100' FEL	2 × = 538107 Y = 642430 2 1980' - 19	SHL 294.16° 1240.6'  X = 538098' Y = 641104'  X = 532802' Y = 641128'	7 18 R-2 12 13 R-2 11 14 10 15	6-E	LOWER MOST PERF. NEW MEXICO EAST NAD 1983 X=532905' Y=641804' LAT=N32.764352° LONG=W104.360767° NAD 1927 X=491726' Y=641742' LAT=N32.764238° LONG=W104.360251° 1980' FNL 100' FWL  OTTOM HOLE LOCATION NEW MEXICO EAST NAD 1983 X=532815' Y=641805' LAT=N32.764354° LONG=W104.361060° NAD 1927 X=491636' Y=641742' LAT=N32.764240° LONG=W104.360543° 1980' FNL 10' FWL

Sante Fe Main Office Phone: (505) 476-3441

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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form APD Conditions

Permit 383950

# PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
RILEY PERMIAN OPERATING COMPANY, LLC [372290]	30-015-57077
29 E Reno Avenue, Suite 500	Well:
Oklahoma City, OK 73104	OVER THE LINE 12 11 #002H

OCD Reviewer	Condition
jeffrey.harrison	This well is in the Roswell Aquifer. Casing must be set and cemented back to surface to protect the Roswell Aquifer.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
jeffrey.harrison	Cement is required to circulate on both surface and production strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.

# State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

# NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

# Section 1 - Plan Description Effective May 25, 2021

I. Operator: Riley I	PermiarOperatir	g Company LLC	_OGRID:3	72290		Date: _	07 /17	/ 2025
II. Type: 🗹 Original [	☐ Amendment o	due to □ 19.15.27.9	9.D(6)(a) NMAC	□ 19.15.27.9.D(	6)(b) NM	IAC 🗆 C	ther.	
If Other, please describe	e:							
III. Well(s): Provide the be recompleted from a s					vells prop	osed to	be dril	led or proposed to
Well Name API ULSTR Footages Anticipated Anticipated Oil BBL/D Gas MCF/D Produced Water BBL/D								oduced Water
Over the Line 12-11 1H	30-015-PENDING	E - 12-18S-26E	2477 FNL 1060 FW	. 450	700	)	4,	000
	30-015-PENDING	E - 12-18S-26E	2493' FNL 1035' FWI	450	70	00	4	1,000
IV. Central Delivery P	oint Name:	Mart	y South Pad CTE	3		_[See 19	9.15.27	7.9(D)(1) NMAC]
V. Anticipated Schedu proposed to be recomple					ell or set	of wells	propo	sed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial F Back D		First Production Date
Over the Line 12-11 1H	30-015-PENDING	10/1/2025	10/8/2025	1/1/2026		2/1/2026	5	2/1/2026
Over the Line 12-11 2H	30-015-PENDING	10/1/2025	10/8/2025	1/1/2026		2/1/202	6	2/1/2026

- VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- VII. Operational Practices: 🗹 Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
- VIII. Best Management Practices: ☑ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Released to Imaging: 7/29/2025 1:30:08 PM

# Received by OCD: 7/25/2025 10:21:58 AM

# Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☑ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

# IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average	Anticipated Volume of Natural		
		Natural Gas Rate MCF/D	Gas for the First Year MCF		

# X. Natural Gas Gathering System (NGGS):

Operator	Operator System		Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in		

- XI. Map.  $\square$  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.
- XII. Line Capacity. The natural gas gathering system  $\square$  will  $\square$  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.
- XIII. Line Pressure. Operator  $\Box$  does  $\Box$  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).
- ☐ Attach Operator's plan to manage production in response to the increased line pressure.
- XIV. Confidentiality: 
  Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

# Received by OCD: 7/25/2025 10:21:58 AM

# Section 3 - Certifications

# Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☐ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

Well Shut-In. □ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

(a) power generation on lease;

If Operator checks this box, Operator will select one of the following:

- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

# Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

Received by OCD: 7/25/2025 10:21:58 AM

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Spence Laird  Title: EHS+R Manager
Printed Name: Spence Laird
Title: EHS+R Manager
E-mail Address: Spencelaind @ riky permian. om
Date: 7/19/25  Phone: 405-543-1411
Phone: 405 -543 - 1411
OIL CONSERVATION DIVISION  (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



# Natural Gas Management Plan – Attachment

VI. Separation equipment will be sized by construction engineering staff based on anticipated daily production to ensure adequate capacity.

VII. Riley Permian Operating Company LLC ("Riley") will take the following actions to comply with the regulations listed in 19.15.27.8:

- A. Riley will maximize the recovery of natural gas by minimizing waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. Spur will ensure that our wells will be connected to a natural gas gathering system with sufficient capacity to transport natural gas.
- B. All drilling operations will be equipped with a rig flare at least 100 feet from the nearest surface hole location. Rig flare will be utilized to combust any natural gas that is brought to surface during normal operations. In the case of emergency, flaring volumes will be reported appropriately.
- C. During completion operations any natural gas brought to surface will be flared. Immediately following completion operations, wells will flow to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. If natural gas does not meet gathering pipeline specifications, Riley will flare for 60 days or until natural gas meets the pipeline specifications. Riley will ensure flare is properly sized and is equipped with an automatic igniter or continuous pilot. Gas samples will be taken twice per week and natural gas will be routed into a gathering system as soon as the pipeline specifications are met.
- D. Natural gas will not be flared with the exception of 19.15.27.8(D)(1-4). If there is no adequate takeaway for the separator gas, wells will be shut-in until that natural gas gathering system is available with exception of emergency or malfunction situations. Volumes will be reported appropriately.
- E. Riley will comply with performance standards pursuant to 19.15.27.8(E)(1-8). All equipment will be designed and sized to handle maximum pressures to minimize waste. Storage tanks constructed after May 25, 2021 will be equipped with an automatic gauging system that reduces venting of natural gas. Flare stacks installed or replaced after May 25, 2021 will be equipped with an automatic ignitor or continuous pilot. Riley will conduct AVO inspections as described in 19.15.27.8(E)(5)(a) with frequencies specified in 19.15.27.8(E)(5)(b) and (c). All emergencies or malfunctions will be resolved as quickly and safely as possible to minimize waste.
- F. The volume of natural gas that is vented or flared as the result of an emergency or malfunction during drilling and/or completion operations will be estimated and reported accordingly. The volume of natural gas that is vented, flared, or beneficially used during production operations will be measured and reported accordingly. Riley will install equipment to measure the volume of natural gas flared from existing piping or a flowline piped from equipment such as high-pressure separators, heater treaters, or VRUs associated with a well of facility associated with a well authorized by an APD after May 25, 2021 that has an average daily production of less than 60,000 cubic feet of natural gas.



If metering is not practicable due to circumstances such as low flow rate or low pressure venting or flaring, Riley will estimate the volume of flared or vented natural gas. Measuring equipment will conform to industry standards and will not be equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing equipment.

VIII. For maintenance activities involving production equipment and compression, venting be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production equipment, the associated producing wells will be shut-in to eliminate venting. For maintenance of VRUs, all natural gas normally routed to the VRU will be routed to flare.

# **DRILLING PROGRAM**



Riley Exploration-Permian, LLC

Over The Line 12-11 Pad

Over The Line 12-11 2H

Lot E Section 12, Township 18 South, Range 26 East, 6th P.M.

**Eddy County, New Mexico** 

**Owner: Bureau of Land Management** 

Land code: Exempt Agricultural Land

# 1. Geologic Name of Surface Formation

# Quaternary

# **Estimated Tops of Important Geologic Markers:**

<u>Top</u>	TC Thickness	<u>Subsea</u>	Top from KB	<u>Lithology</u>	<b>Expected Fluids</b>
Quaternary	343.5	3,319	0	Salt/Red beds	Usable Water
Queen	417	2,975	344	ANHY/Dolomite	None
Grayburg	247	2,558	761	ANHY/Dolomite	Natural Gas, Oil
San Andres	1320	2,311	1,008	ANHY/Dolomite	Natural Gas, Oil
Glorieta	95	991	2,328	ANHY/Dolomite	Natural Gas, Oil
Paddock	121	896	2,423	ANHY/Dolomite	Natural Gas, Oil
Lower Paddock	220	775	2,544	ANHY/Dolomite	Natural Gas, Oil
Upper Blinebry	360	555	2,764	ANHY/Dolomite	Natural Gas, Oil
Target		195	3,124		

Target @ 0' VS	<u>TVD</u>	<u>INC</u>
<u>rarget @ 0 vs</u>	3,124	90.00

# 2. Blowout Prevention

# \*Variance Requested for flex hose\*

Riley Permian requests a variance to use a flex line from the BOP to the choke manifold. Documentation will be attached to the APD and be readily available. No external damage to the flex line. Flex line to be installed as straight as possible with no bends.

# \*Riley Permian will be utilizing a 5M BOP\*

Condition	Specify what type and where?
BH Pressure at Deepest TVD	~1500 psi
Abnormal Temperature	No
BH Temperature at Deepest TVD	105-deg F

BOP/BOPE will be tested by an independent service company to 250 psi low and 70% of working pressure high unless otherwise required, as per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed with be functional and tested.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per Onshore Order #2.
On Exploratory wells or on that portion of any well approved for a 5M BOPE system or
greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in
 accordance with Onshore Oil and Gas Order #2 III.B.1.i.

	Y	Y Are anchors required by manufacturer?						
	A con	ventional wellhead system will be employed. The wellhead and connection to the						
	BOPE	will meet all API 6A requirements. The BOP will be tested per Onshore Order #2						
	after is	astallation on the surface casing which will cover testing requirements for a maximum						
	of 30	days.						
	See at	tached schematics.						

# 3. BOP Break Testing Request

Riley Exploration Permian LLC requests permission to adjust the BOP break testing requirements as follows:

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill the production section, where the surface casing point is shallower than the 3 Bone Spring or 10,000' TVD
- When skidding to drill a production section that does not penetrate the 3<sup>rd</sup> Bone Spring or deeper

If the kill line is broken prior to skid, four tests will be performed:

- The void between the wellhead and the spool (one on each side for two tests)
- The spool between the kill lines and the choke manifold (consisting of two tests)

If the kill line is not broken prior to skid, two tests will be performed:

• The void between the wellhead and the pipe rams

# 4. Proposed Casing Program

All casing strings will be test in accordance with onshore oil and gas order #2 III.B.1.h.

Casing Formation Set	Hole Size (in.)	Casing In	terval	Casing Size	Weight (lbs.)	Grade Conn.	ade Conn.	Grade Conn.		SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
Interval		From (ft.)	To (ft.)	(in.)									
San Andres	12.25	0	1250	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4		
N/A	8.75	0	3458	7	32	HCL-80	BTC	1.125	1.2	1.4	1.4		
Yeso	8.75	3458	8928	5.5	20	HCL-80	BTC	1.125	1.2	1.4	1.4		
								SF Va	lues will M	1EET or EXC	EED		

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

# 5. Proposed Cement Program:

		Bottom	
Casing String	Top (ft.)	(ft.)	% Excess
Surface (Lead)	0	950	100%
Surface (Tail)	950	1250	100%
Production (Lead)	0	2300	35%+
Production (Tail)	2300	8928	35%+

Casing String	# Sx	Wt. (lb./gal)	Yld (ft3/sk)	H20 (gal/sk)	500# Compressive Strength (hours)	Slurry Description
Surface (lead)	450	12.8	1.43	6.65	6:44	50/50 Poz C Premium Plus
Surface (tail)	195	14.8	1.33	6.32	8:05	Class C Premium Plus
Production (lead)	200	11.5	2.29	12.63	N/A	50/50 Poz C Premium Plus
Production (tail)	1575	13.7	1.31	5.61	N/A	35/65 Poz C Premium Plus

# 6. Types and Characteristics of the Proposed Mud System:

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Saltwater Clay, CACL2. Riley will utilize a closed mud system.

Depti	h	Typo	Weight	Viscosity	Water
From (ft.)	To (ft.)	Туре	(ppg)	(cp)	Loss
0	1250	Water-Based Mud	8.6-8.9	32-36	N/C
1250	TD	Water-Based Mud	8.6-8.10	32-37	N/C

PVT/Pason/Visual Monitoring will be used to monitor the loss or gain of fluid.

# 7. Logging, Testing and Coring Program:

Logg	ing, Coring and Testing									
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs									
	run will be in the Completion Report and submitted to the BLM.									
No	Logs are planned based	on well control or offset log informa	tion.							
No	Drill stem test? If yes, e	explain								
No	Coring? If yes, explain									
Addi	tional logs planned	Interval								
No	Resistivity									
No	Density									
No	CBL									
Yes	Mud log	SCP - TD								
No	PEX									

# 8. Drilling Conditions

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Hyd	rogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S
is de	tected in concentrations greater than 100 ppm, the operator will comply with the provisions
of O	inshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and
form	nations will be provided to the BLM.
N	H2S is present
Y	H2S Plan attached

Total estimated cuttings volume: 810 bbl

# NOTES REGARDING THE BLOWOUT PREVENTERS

# Over The Line 12-11 2H

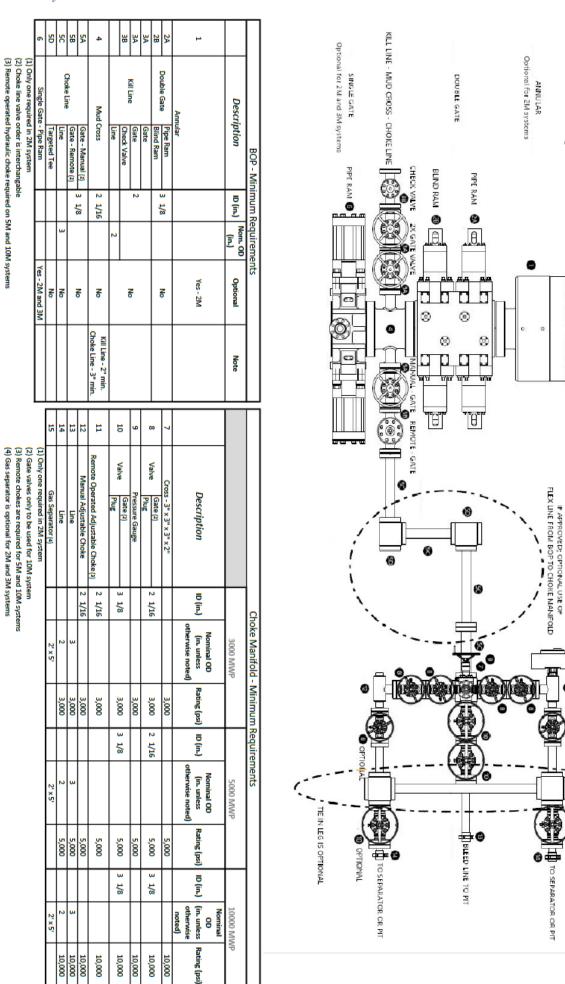
# **Eddy County, New Mexico**

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 3000 psi WP minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 3000 psi WP
- 6. All choke and fill lines to be securely anchored especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on Kelly.
- 9. Extension wrenches and hands wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

Minimum BOP and Choke Requirements

Riley Permian

3M and 5M Systems



# **Riley Permian Operating Company, LLC**

# Onshore Order #6 Hydrogen Sulfide Drilling Operation Plan

# I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards an characteristics of hydrogen sulfide (H2S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H2S detectors alarms warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile tubular are to be used, personnel well be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. The concentrations of H2S of wells in this area from surface to TD are low enough that a contingency plan is not required.

# II. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H2S.

# 1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment may include if applicable: annular preventer & rotating head.

# 2. Protective equipment for essential personnel:

A. Mark II Survive air 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

# 3. H2S detection and monitoring equipment:

A. 3x portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

# 4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram (Exhibit #8).
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

# 5. Mud program:

A. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

# 6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

#### 7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communication at Office.

# 8. Well testing:

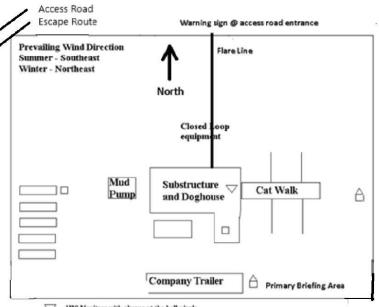
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H2S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

# **WARNING**

# YOU ARE ENTERING AN H2S AREA **AUTHORIZED PERSONNEL ONLY**

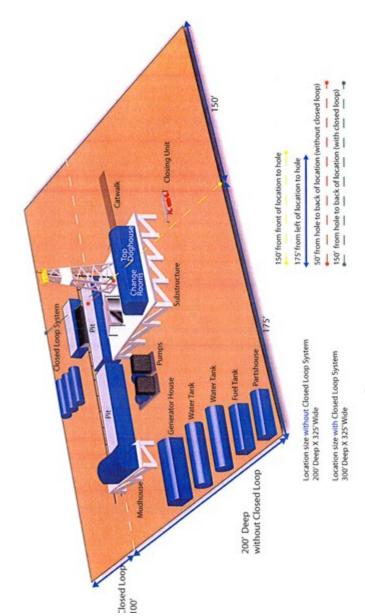
- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
  - 2. HARD HATS REQUIRED
  - 3. SMOKING IN DESIGNATED AREAS ONLY
    - 4. BE WIND CONSCIOUS AT ALL TIMES
  - 5. CHECK WITH RILEY PERMIAN OPERATING **COMPANY MAN AT OFFICE**

RILEY PERMIAN OPERATING COMPANY, LLC 1-405-415-8699



- H2S Monitors with alarms at the bell nipple
- Wind Direction Indicators
- Safe Briefing areas with caution signs and breathing equipment min 150 feet from wellhead

# Hydrogen Sulfide Drilling Operations Plan DRILLING LOCATION H2S SAFTY EQUIPMENT Exhibit # 8



Location Layout

# **EMERGENCY CONTACT LIST – EDDY COUNTY**

<u>Artesia</u>	Cellular	Office	
Spence Laird	575-703-7382	405-420-8415	
Steve Forister	505-400-4571	405-666-0113	
Travis Kerr	.713-823-6933		
Justing Sappington	361-550-0494		

# Agency Call List (575)

# Artesia

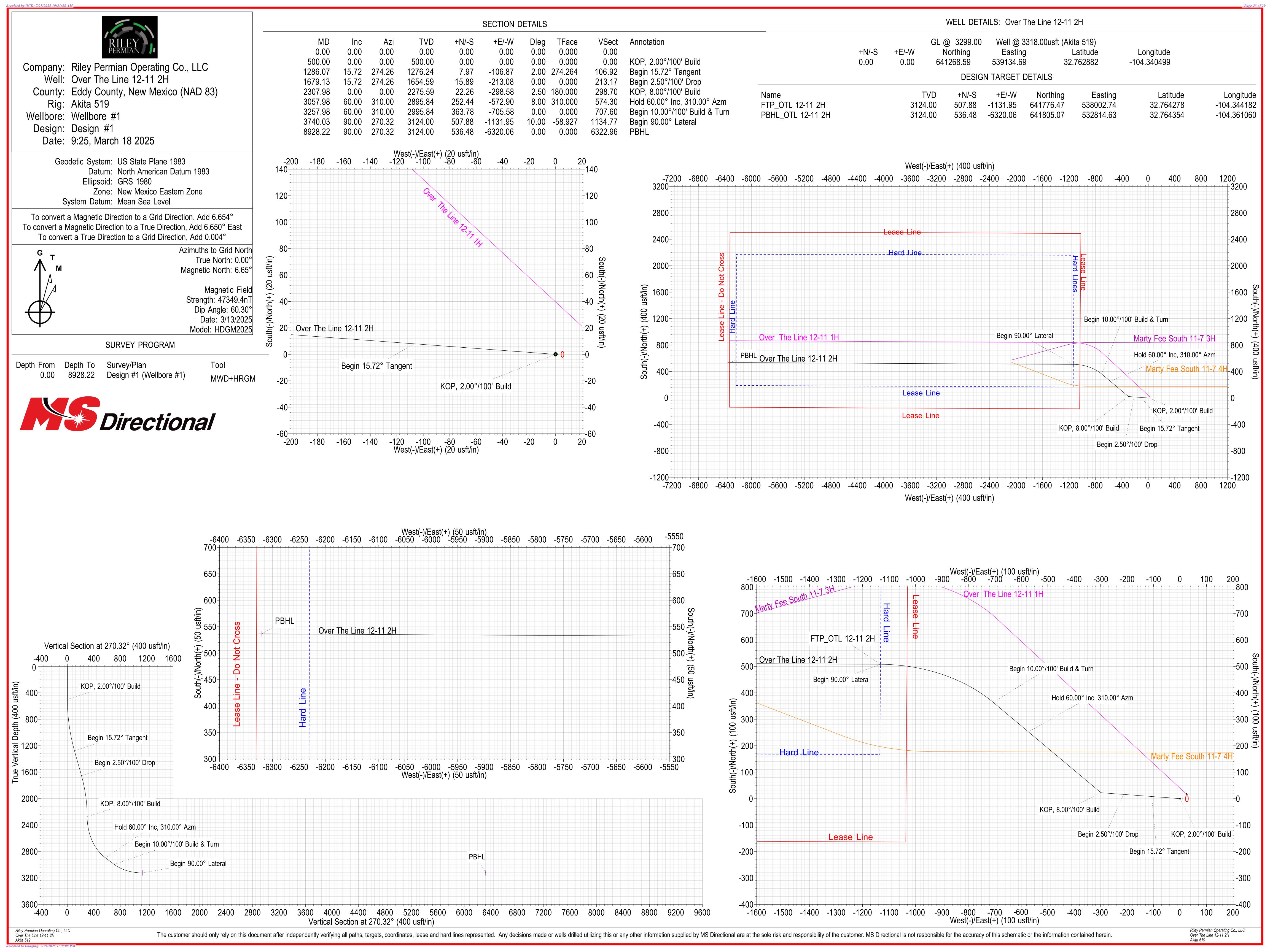
State Police	746-2703
City Police	746-2703
Sheriff's Office	746-9888
Ambulance	911
Fire Department	746-2701
LEPC (Local Emergency Planning	g Committee746-2122
NMOCD	748-1283

# Carlsbad

State Police	885-3137
City Police	885-2111
Sheriff's Office	887-7551
Ambulance	911
Fire Department	885-2111
LEPC (Local Emergency Plannin	g Committee887-3798
Bureau of Land Management	887-6544
New Mexico Emergency Respo	nse Commission(505)476-9690
24 Hour	(505)827-9126

# **Emergency Services**

Boots & Coots IWC1-800-256-9688 or (281)931-8884
Cudd pressure Control(915)699-0139 or (915)563-3356
Halliburton746-2757
Par Five748-9539
Flight For Life-Lubbock, TX(806)743-9911
Aerocare-Lubbock, TX(806)747-8923
Med Flight Air Amb-Albuquerque, NM(505)842-4433
Lifeguard Air Med Svc. Albuquerque, NM(505)272-3115





# Riley Permian Operating Co., LLC

Eddy County, New Mexico (NAD 83) Over The Line 12-11 (1H, 2H) Over The Line 12-11 2H

Wellbore #1

Plan: Design #1

# **Standard Planning Report**

18 March, 2025



# Page 25 of 29



### Planning Report



Database: TRG\_EDMConroe

Company: Riley Permian Operating Co., LLC
Project: Eddy County, New Mexico (NAD 83)
Site: Over The Line 12-11 (1H, 2H)

Well: Over The Line 12-11 2H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Over The Line 12-11 2H

Well @ 3318.00usft (Akita 519) Well @ 3318.00usft (Akita 519)

Grid

Minimum Curvature

Project Eddy County, New Mexico (NAD 83)

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Over The Line 12-11 (1H, 2H)

 Site Position:
 Northing:
 641,285.13 usft
 Latitude:
 32.762928

 From:
 Map
 Easting:
 539,159.71 usft
 Longitude:
 -104.340418

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 "

Well Over The Line 12-11 2H

 Well Position
 +N/-S
 0.00 usft
 Northing:
 641,268.59 usft
 Latitude:
 32.762882

+E/-W 0.00 usft Easting: 539,134.69 usfl Longitude: -104.340500

Position Uncertainty 0.00 usft Wellhead Elevation: usfl Ground Level: 3,299.00 usfl

Grid Convergence: -0.004 °

Wellbore #1

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 HDGM2025
 3/13/2025
 6.650
 60.300
 47,349.400

Design #1

Audit Notes:

Version:Phase:PLANTie On Depth:0.00

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S (usft)
 +E/-W (usft)
 Direction (usft)

 0.00
 0.00
 0.00
 270.32

Plan Survey Tool Program Date 3/17/2025

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.00 8,928.22 Design #1 (Wellbore #1) MWD+HRGM

OWSG MWD + HRGM





Project:

Site:

# **Planning Report**



Database: TRG\_EDMConroe Riley Permian Ope

Riley Permian Operating Co., LLC Eddy County, New Mexico (NAD 83)

Over The Line 12-11 (1H, 2H)
Over The Line 12-11 2H

Well: Over The Lir Wellbore: Wellbore #1 Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Over The Line 12-11 2H Well @ 3318.00usft (Akita 519) Well @ 3318.00usft (Akita 519)

Grid

Minimum Curvature

Plan Section	s									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,286.07	15.72	274.26	1,276.24	7.97	-106.87	2.00	2.00	0.00	274.264	
1,679.13	15.72	274.26	1,654.59	15.89	-213.08	0.00	0.00	0.00	0.000	
2,307.98	0.00	0.00	2,275.59	22.26	-298.58	2.50	-2.50	0.00	180.000	
3,057.98	60.00	310.00	2,895.84	252.44	-572.90	8.00	8.00	0.00	310.000	
3,257.98	60.00	310.00	2,995.84	363.78	-705.58	0.00	0.00	0.00	0.000	
3,740.03	90.00	270.32	3,124.00	507.88	-1,131.95	10.00	6.22	-8.23	-58.927	
8,928.22	90.00	270.32	3,124.00	536.48	-6,320.06	0.00	0.00	0.00	0.000 PI	BHL_OTL 12-11 2

# RILEY

# **Planning Report**



Database: TRG\_EDMConroe

Company: Riley Permian Operating Co., LLC
Project: Eddy County, New Mexico (NAD 83)
Site: Over The Line 12-11 (1H, 2H)
Well: Over The Line 12-11 2H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Over The Line 12-11 2H Well @ 3318.00usft (Akita 519) Well @ 3318.00usft (Akita 519)

Minimum Curvature

ssigii.		Design #1								
lanne	d Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.00 100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
	KOP, 2.00°		074.00	500.00	0.40	4 74	4 7 4	0.00	0.00	0.00
	600.00 700.00 800.00 900.00	2.00 4.00 6.00 8.00	274.26 274.26 274.26 274.26	599.98 699.84 799.45 898.70	0.13 0.52 1.17 2.07	-1.74 -6.96 -15.65 -27.80	1.74 6.96 15.66 27.81	2.00 2.00 2.00 2.00	2.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00
	1,000.00 1,100.00 1,200.00 1,286.07	10.00 12.00 14.00 15.72	274.26 274.26 274.26 274.26	997.47 1,095.62 1,193.06 1,276.24	3.24 4.65 6.33 7.97	-43.40 -62.43 -84.86 -106.87	43.42 62.45 84.89 106.92	2.00 2.00 2.00 2.00	2.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00
		2° Tangent								
	1,300.00 1,400.00	15.72 15.72	274.26 274.26	1,289.65 1,385.91	8.25 10.26 12.28	-110.64 -137.66	110.68 137.71	0.00 0.00 0.00	0.00	0.00 0.00 0.00
	1,500.00 1,600.00 1,679.13	15.72 15.72 15.72	274.26 274.26 274.26	1,482.17 1,578.43 1,654.59	14.29 15.89	-164.68 -191.70 -213.08	164.75 191.78 213.17	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	Begin 2.50 1,700.00	°/ <b>100' Drop</b> 15.20	274.26	1,674.71	16.30	-218.63	218.72	2.50	-2.50	0.00
	1,800.00 1,900.00 2,000.00 2,100.00 2,200.00	12.70 10.20 7.70 5.20 2.70	274.26 274.26 274.26 274.26 274.26 274.26	1,074.71 1,771.76 1,869.76 1,968.53 2,067.89 2,167.65	18.09 19.57 20.72 21.56 22.07	-242.67 -262.46 -277.97 -289.18 -296.04	242.77 262.57 278.09 289.29 296.16	2.50 2.50 2.50 2.50 2.50 2.50	-2.50 -2.50 -2.50 -2.50 -2.50	0.00 0.00 0.00 0.00 0.00
	2,200.00	0.00	0.00	2,107.03	22.26	-298.58	298.70	2.50	-2.50 -2.50	79.40
	KOP, 8.00°		0.00	2,273.39	22.20	-230.30	290.70	2.30	-2.50	79.40
	2,350.00 2,400.00 2,450.00 2,500.00	3.36 7.36 11.36 15.36	310.00 310.00 310.00 310.00	2,317.58 2,367.35 2,416.68 2,465.32	23.05 26.05 31.28 38.71	-299.52 -303.10 -309.33 -318.18	299.65 303.24 309.50 318.39	8.00 8.00 8.00 8.00	8.00 8.00 8.00 8.00	-119.00 0.00 0.00 0.00
	2,550.00 2,600.00 2,650.00 2,700.00 2,750.00	19.36 23.36 27.36 31.36 35.36	310.00 310.00 310.00 310.00 310.00	2,513.03 2,559.58 2,604.76 2,648.32 2,690.08	48.30 60.00 73.76 89.52 107.19	-329.61 -343.56 -359.96 -378.74 -399.79	329.87 343.89 360.37 379.23 400.39	8.00 8.00 8.00 8.00 8.00	8.00 8.00 8.00 8.00 8.00	0.00 0.00 0.00 0.00 0.00
	2,800.00 2,850.00 2,900.00 2,950.00 3,000.00	39.36 43.36 47.36 51.36 55.36	310.00 310.00 310.00 310.00 310.00	2,729.81 2,767.33 2,802.45 2,835.01 2,864.84	126.69 147.92 170.79 195.17 220.95	-423.03 -448.34 -475.59 -504.65 -535.37	423.73 449.16 476.53 505.73 536.60	8.00 8.00 8.00 8.00 8.00	8.00 8.00 8.00 8.00 8.00	0.00 0.00 0.00 0.00 0.00
	3,050.00 3,057.98	59.36 60.00	310.00 310.00	2,891.81 2,895.84	248.01 252.44	-567.62 -572.90	569.00 574.30	8.00 8.00	8.00 8.00	0.00 0.00
	Hold 60.00 3.100.00	° Inc, 310.00° / 60.00	<b>Azm</b> 310.00	2,916.84	275.83	-600.77	602.31	0.00	0.00	0.00
	3,200.00 3,257.98	60.00 60.00	310.00 310.00	2,966.84 2,995.84	331.50 363.78	-600.77 -667.12 -705.58	668.96 707.60	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	Begin 10.0	0°/100' Build 8	& Turn							
	3,300.00 3,350.00	62.23 65.03	305.93 301.31	3,016.14 3,038.35	386.39 411.16	-734.58 -771.88	736.73 774.17	10.00 10.00	5.31 5.60	-9.68 -9.25

# RILEY

Site:

# **Planning Report**



Database: Company: Project: TRG\_EDMConroe

Riley Permian Operating Co., LLC Eddy County, New Mexico (NAD 83) Over The Line 12-11 (1H, 2H)

Well: Over The Line 12-11 2H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Over The Line 12-11 2H Well @ 3318.00usft (Akita 519) Well @ 3318.00usft (Akita 519)

Grid

Minimum Curvature

Design:	Design #1								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,400.00	67.97	296.90	3,058.29	433.44	-811.94	814.35	10.00	5.88	-8.82
3,450.00	71.02	292.67	3,075.81	453.05	-854.45	856.97	10.00	6.10	-8.46
3,500.00	74.17	288.59	3,090.77	469.84	-899.09	901.70	10.00	6.29	-8.15
3,550.00	77.39	284.65	3,103.06	483.69	-945.52	948.20	10.00	6.44	-7.90
3,600.00	80.66	280.80	3,112.58	494.48	-993.38	996.13	10.00	6.55	-7.70
3,650.00	83.98	277.02	3,119.26	502.15	-1,042.32	1,045.11	10.00	6.63	-7.55
3,700.00	87.32	273.29	3,123.06	506.62	-1,091.96	1,094.77	10.00	6.68	-7.46
3,740.03	90.00	270.32	3,124.00	507.88	-1,131.95	1,134.77	10.00	6.70	-7.42
Begin 90.00	0° Lateral								
3,800.00	90.00	270.32	3,124.00	508.21	-1,191.92	1,194.74	0.00	0.00	0.00
3,900.00	90.00	270.32	3,124.00	508.76	-1,291.92	1,294.74	0.00	0.00	0.00
4,000.00	90.00	270.32	3,124.00	509.31	-1,391.92	1,394.74	0.00	0.00	0.00
4,100.00	90.00	270.32	3,124.00	509.86	-1,491.92	1,494.74	0.00	0.00	0.00
4,200.00	90.00	270.32	3,124.00	510.41	-1,591.92	1,594.74	0.00	0.00	0.00
4,300.00	90.00	270.32	3,124.00	510.96	-1,691.91	1,694.74	0.00	0.00	0.00
4,400.00	90.00	270.32	3,124.00	511.51	-1,791.91	1,794.74	0.00	0.00	0.00
4,500.00	90.00	270.32	3,124.00	512.07	-1,891.91	1,894.74	0.00	0.00	0.00
4,600.00	90.00	270.32	3,124.00	512.62	-1,991.91	1,994.74	0.00	0.00	0.00
4,700.00	90.00	270.32	3,124.00	513.17	-2,091.91	2,094.74	0.00	0.00	0.00
4,800.00	90.00	270.32	3,124.00	513.72	-2,191.91	2,194.74	0.00	0.00	0.00
4,900.00	90.00	270.32	3,124.00	514.27	-2,291.91	2,294.74	0.00	0.00	0.00
5,000.00	90.00	270.32	3,124.00	514.82	-2,391.90	2,394.74	0.00	0.00	0.00
5,100.00	90.00	270.32	3,124.00	515.37	-2,491.90	2,494.74	0.00	0.00	0.00
5,200.00	90.00	270.32	3,124.00	515.93	-2,591.90	2,594.74	0.00	0.00	0.00
5,300.00	90.00	270.32	3,124.00	516.48	-2,691.90	2,694.74	0.00	0.00	0.00
5,400.00	90.00	270.32	3,124.00	517.03	-2,791.90	2,794.74	0.00	0.00	0.00
5,500.00	90.00	270.32	3,124.00	517.58	-2,891.90	2,894.74	0.00	0.00	0.00
5,600.00	90.00	270.32	3,124.00	518.13	-2,991.89	2,994.74	0.00	0.00	0.00
5,700.00	90.00	270.32	3,124.00	518.68	-3,091.89	3,094.74	0.00	0.00	0.00
5,800.00	90.00	270.32	3,124.00	519.23	-3,191.89	3,194.74	0.00	0.00	0.00
5,900.00	90.00	270.32	3,124.00	519.78	-3,291.89	3,294.74	0.00	0.00	0.00
6,000.00	90.00	270.32	3,124.00	520.34	-3,391.89	3,394.74	0.00	0.00	0.00
6,100.00	90.00	270.32	3,124.00	520.89	-3,491.89	3,494.74	0.00	0.00	0.00
6,200.00	90.00	270.32	3,124.00	521.44	-3,591.89	3,594.74	0.00	0.00	0.00
6,300.00	90.00	270.32	3,124.00	521.99	-3,691.88	3,694.74	0.00	0.00	0.00
6,400.00	90.00	270.32	3,124.00	522.54	-3,791.88	3,794.74	0.00	0.00	0.00
6,500.00	90.00	270.32	3,124.00	523.09	-3,891.88	3,894.74	0.00	0.00	0.00
6,600.00	90.00	270.32	3,124.00	523.64	-3,991.88	3,994.74	0.00	0.00	0.00
6,700.00	90.00	270.32	3,124.00	524.19	-4,091.88	4,094.74	0.00	0.00	0.00
6,800.00	90.00	270.32	3,124.00	524.75	-4,191.88	4,194.74	0.00	0.00	0.00
6,900.00	90.00	270.32	3,124.00	525.30	-4,291.88	4,294.74	0.00	0.00	0.00
7,000.00	90.00	270.32	3,124.00	525.85	-4,391.87	4,394.74	0.00	0.00	0.00
7,100.00	90.00	270.32	3,124.00	526.40	-4,491.87	4,494.74	0.00	0.00	0.00
7,200.00	90.00	270.32	3,124.00	526.95	-4,591.87	4,594.74	0.00	0.00	0.00
7,300.00	90.00	270.32	3,124.00	527.50	-4,691.87	4,694.74	0.00	0.00	0.00
7,400.00	90.00	270.32	3,124.00	528.05	-4,791.87	4,794.74	0.00	0.00	0.00
7,500.00	90.00	270.32	3,124.00	528.60	-4,891.87	4,894.74	0.00	0.00	0.00
7,600.00	90.00	270.32	3,124.00	529.16	-4,991.86	4,994.74	0.00	0.00	0.00
7,700.00	90.00	270.32	3,124.00	529.71	-5,091.86	5,094.74	0.00	0.00	0.00
7,800.00	90.00	270.32	3,124.00	530.26	-5,191.86	5,194.74	0.00	0.00	0.00
7,900.00	90.00	270.32	3,124.00	530.81	-5,291.86	5,294.74	0.00	0.00	0.00
8,000.00	90.00	270.32	3,124.00	531.36	-5,391.86	5,394.74	0.00	0.00	0.00
8,100.00	90.00	270.32	3,124.00	531.91	-5,491.86	5,494.74	0.00	0.00	0.00
8,200.00	90.00	270.32	3,124.00	532.46	-5,591.86	5,594.74	0.00	0.00	0.00

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# **Planning Report**



Database: Company: Project:

Site:

TRG\_EDMConroe

Riley Permian Operating Co., LLC Eddy County, New Mexico (NAD 83)

Over The Line 12-11 (1H, 2H) Over The Line 12-11 2H

Well: Wellbore: Wellbore #1 Design #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Over The Line 12-11 2H Well @ 3318.00usft (Akita 519) Well @ 3318.00usft (Akita 519)

Minimum Curvature

PI	an	ne	d	Su	ırv	еу
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8.300.00	90.00	270.32	3.124.00	533.01	-5.691.85	5.694.74	0.00	0.00	0.00
8,400.00	90.00	270.32	3,124.00	533.57	-5,791.85	5,794.74	0.00	0.00	0.00
8,500.00	90.00	270.32	3,124.00	534.12	-5,891.85	5,894.74	0.00	0.00	0.00
8,600.00	90.00	270.32	3,124.00	534.67	-5,991.85	5,994.74	0.00	0.00	0.00
8,700.00	90.00	270.32	3,124.00	535.22	-6,091.85	6,094.74	0.00	0.00	0.00
8,800.00	90.00	270.32	3,124.00	535.77	-6,191.85	6,194.74	0.00	0.00	0.00
8,900.00	90.00	270.32	3,124.00	536.32	-6,291.84	6,294.74	0.00	0.00	0.00
8,928.22	90.00	270.32	3,124.00	536.48	-6,320.06	6,322.96	0.00	0.00	0.00
PBHL									

# **Design Targets**

Targe	t Name
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- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_OTL 12-11 2H	0.00	360.00	3,124.00	536.48	-6,320.06	641,805.07	532,814.63	32.764354	-104.361060

- Point

-104.344182 FTP OTL 12-11 2H 538,002.74 32.764278 0.00 360.00 3,124.00 507.88 -1,131.95 641,776.48

plan misses target center by 0.01usft at 3740.03usft MD (3124.00 TVD, 507.88 N, -1131.95 E)
 Point

# Plan Annotations

Measured Depth	Vertical Depth	Local Coor +N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
500.00	500.00	0.00	0.00	KOP, 2.00°/100' Build
1,286.07	1,276.24	7.97	-106.87	Begin 15.72° Tangent
1,679.13	1,654.59	15.89	-213.08	Begin 2.50°/100' Drop
2,307.98	2,275.59	22.26	-298.58	KOP, 8.00°/100' Build
3,057.98	2,895.84	252.44	-572.90	Hold 60.00° Inc, 310.00° Azm
3,257.98	2,995.84	363.78	-705.58	Begin 10.00°/100' Build & Turn
3,740.03	3,124.00	507.88	-1,131.95	Begin 90.00° Lateral
8,928.22	3,124.00	536.48	-6,320.06	PBHL